

WHAT IS CLAIMED IS:

1. A history storing device for storing a history of use of an electrical apparatus, comprising:

a detecting circuit detecting a state of said electrical apparatus, and issuing an electrical signal corresponding to the detected state;

5 a determining circuit, connected to said detecting circuit, determining a history of use of said electrical apparatus based on the electrical signal sent from said detecting circuit; and

a storage circuit, connected to said determining circuit, storing the detected history.

2. The history storing device according to claim 1, wherein

said detecting circuit includes a circuit detecting an elapsed time from at least one of the data of manufacture of said electrical apparatus and the data of first use of said electrical apparatus, and issuing an electrical signal corresponding to the detected time.

3. The history storing device according to claim 1, wherein

said detecting circuit includes a circuit detecting a use environment of said electrical apparatus, and issuing an electrical signal corresponding to the detected environment.

4. The history storing device according to claim 1, wherein

said detecting circuit includes a circuit detecting a frequency of use of said electrical apparatus, and issuing an electrical signal corresponding to the detected frequency.

5. The history storing device according to claim 1, wherein

said detecting circuit includes a circuit detecting a magnitude of impact applied to said electrical apparatus by a user of said electrical apparatus, and issuing an electrical signal corresponding to the detected impact magnitude.

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6. An electrical apparatus comprising the history storing device according to claim 1.
7. A residual value calculating device for calculating a residual value of an electrical apparatus, comprising:
- a detecting circuit detecting a state of said electrical apparatus, and issuing an electrical signal corresponding to the detected state;
  - 5 a determining circuit, connected to said detecting circuit, determining a history of use of said electrical apparatus based on the electrical signal sent from said detecting circuit;
  - a calculating circuit, connected to said determining circuit, calculating the value remaining in said electrical apparatus based on the determined history; and
  - 10 an output circuit, connected to said calculating circuit, outputting the calculated value.
8. The residual value calculating device according to claim 7, further comprising:
- a storage circuit, connected to said calculating circuit, distinguishing parts forming the electrical apparatus based on patterns of variations of residual values with respect to time elapsing, and storing said patterns and the parts belonging to the respective patterns, wherein
  - 5 said calculating circuit includes a circuit, connected to said determining circuit and said storage circuit, integrating values remaining in the respective parts forming said electrical apparatus based on the history determined by said determining circuit and the variation patterns of the residual values stored in said storage circuit, and calculating the value remaining in said electrical apparatus.
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9. The residual value calculating device according to claim 8, further comprising:
- a receiving circuit, connected to said storage circuit, receiving said variation patterns for storage in said storage circuit.

10. The residual value calculating device according to claim 7,  
further comprising:

a storage circuit, connected to said calculating circuit, storing an  
initial value of said electrical apparatus, wherein

5        said calculating circuit includes a circuit, connected to said  
determining circuit and said storage circuit, calculating the value  
remaining in said electrical apparatus based on said initial value and the  
determined history.

11. The residual value calculating device according to claim 10,  
further comprising:

a receiving circuit, connected to said storage circuit, and receiving  
said initial value for storage in said storage circuit.

12. The residual value calculating device according to claim 7,  
wherein

5        said detecting circuit includes a circuit detecting an elapsed time  
from at least one of the data of manufacture of said electrical apparatus  
and the data of first use of said electrical apparatus, and issuing an  
electrical signal corresponding to the detected time.

13. The residual value calculating device according to claim 7,  
wherein

5        said detecting circuit includes a circuit detecting a use environment  
of said electrical apparatus, and issuing an electrical signal corresponding  
to the detected environment.

14. The residual value calculating device according to claim 7,  
wherein

5        said detecting circuit includes a circuit detecting a frequency of use  
of said electrical apparatus, and issuing an electrical signal corresponding  
to the detected frequency.

15. The residual value calculating device according to claim 7, wherein

said detecting circuit includes a circuit detecting a magnitude of impact applied to said electrical apparatus by a user of said electrical apparatus, and issuing an electrical signal corresponding to the detected impact magnitude.

16. An electrical apparatus comprising the residual value calculating device according to claim 7.

17. A history storing device for storing a history of use of an electrical apparatus, comprising:

means for detecting a state of said electrical apparatus, and issuing an electrical signal corresponding to the detected state;

means, connected to said detecting means, for determining a history of use of said electrical apparatus based on the electrical signal sent from said detecting means; and

storage means, connected to said determining means, for storing the detected history.

18. The history storing device according to claim 17, wherein said detecting means includes means of detecting an elapsed time from at least one of the data of manufacture of said electrical apparatus and the data of first use of said electrical apparatus, and issuing an electrical signal corresponding to the detected time.

19. The history storing device according to claim 17, wherein said detecting means includes means for detecting a use environment of said electrical apparatus, and issuing an electrical signal corresponding to the detected environment.

20. The history storing device according to claim 17, wherein said detecting means includes means for detecting a frequency of use

of said electrical apparatus, and issuing an electrical signal corresponding to the detected frequency.

21. The history storing device according to claim 17, wherein  
said detecting means includes means for detecting a magnitude of  
impact applied to said electrical apparatus by a user of said electrical  
apparatus, and issuing an electrical signal corresponding to the detected  
impact magnitude.

5        22. An electrical apparatus comprising the history storing device  
according to claim 17.

23. A residual value calculating device for calculating a residual  
value of an electrical apparatus, comprising:  
means for detecting a state of said electrical apparatus, and issuing  
an electrical signal corresponding to the detected state;  
5        means, connected to said detecting means, for determining a history  
of use of said electrical apparatus based on the electrical signal sent from  
said detecting means;  
means, connected to said determining means, for calculating the  
value remaining in said electrical apparatus based on the determined  
history; and  
10      means, connected to said calculating means, for outputting the  
calculated value.

24. The residual value calculating device according to claim 23,  
further comprising:  
means, connected to said calculating means, for distinguishing parts  
forming the electrical apparatus based on patterns of variations of residual  
5        values with respect to time elapsing, and storing said patterns and the  
parts belonging to the respective patterns, wherein  
said calculating means includes means, connected to said  
determining means and said storage means, for integrating values

10 remaining in the respective parts forming said electrical apparatus based on the history determined by said determining means and the variation patterns of the residual values stored in said storage means, and calculating the value remaining in said electrical apparatus.

25. The residual value calculating device according to claim 24, further comprising:

means, connected to said storage means, receiving said variation patterns for storage in said storage means.

26. The residual value calculating device according to claim 23, further comprising:

means, connected to said calculating means, for storing an initial value of said electrical apparatus, wherein

5 said calculating means includes means, connected to said determining means and said storage means, for calculating the value remaining in said electrical apparatus based on said initial value and the determined history.

27. The residual value calculating device according to claim 26, further comprising:

means, connected to said storage means, receiving said initial value for storage in said storage means.

28. The residual value calculating device according to claim 23, wherein

5 said detecting means includes means of detecting an elapsed time from at least one of the data of manufacture of said electrical apparatus and the data of first use of said electrical apparatus, and issuing an electrical signal corresponding to the detected time.

29. The residual value calculating device according to claim 23, wherein

5        said detecting means includes means of detecting a use environment of said electrical apparatus, and issuing an electrical signal corresponding to the detected environment.

30. The residual value calculating device according to claim 23, wherein

5        said detecting means includes means for detecting a frequency of use of said electrical apparatus, and issuing an electrical signal corresponding to the detected frequency.

31. The residual value calculating device according to claim 23, wherein

5        said detecting means includes means for detecting a magnitude of impact applied to said electrical apparatus by a user of said electrical apparatus, and issuing an electrical signal corresponding to the detected impact magnitude.

32. An electrical apparatus comprising the residual value calculating device according to claim 23.

33. A history storing method for storing a history of use of an electrical apparatus including a history storing device, said history storing device including a detecting circuit, a determining circuit and a storage circuit, comprising the steps of:

5        detecting a state of said electrical apparatus by said detecting circuit, and issuing an electrical signal corresponding to the detected state;

      determining the history of use of said electrical apparatus based on said electrical signal by said determining circuit; and

10      storing the history determined in said step of determining the history by said storage circuit.

34. The history storing method according to claim 33, wherein said step of issuing said electrical signal includes the step of

detecting an elapsed time from at least one of the data of manufacture of said electrical apparatus and the data of first use of said electrical

- 5      apparatus, and issuing an electrical signal corresponding to the detected time.

35. The history storing method according to claim 33, wherein said step of issuing said electrical signal includes the step of detecting a use environment of said electrical apparatus, and issuing an electrical signal corresponding to the detected environment.

36. The history storing method according to claim 33, wherein said step of issuing said electrical signal includes the step of detecting a frequency of use of said electrical apparatus, and issuing an electrical signal corresponding to the detected frequency.

37. The history storing method according to claim 33, wherein said step of issuing said electrical signal includes the step of detecting a magnitude of impact applied to said electrical apparatus by a user of said electrical apparatus, and issuing an electrical signal corresponding to the detected impact magnitude.

38. A residual value calculating method of calculating a value remaining in an electrical apparatus including a residual value calculating device, said residual value calculating device including a detecting circuit, a determining circuit, a calculating circuit and an output circuit,  
5 comprising the steps of:

detecting a state of said electrical apparatus by said detecting circuit, and issuing an electrical signal corresponding to the detected state;

determining a history of use of said electrical apparatus based on said electrical signal by said determining circuit;

10      calculating a value remaining in said electrical apparatus by said calculating circuit based on the history determined in said step of determining the history; and

outputting the value calculated in said step of calculating the value by said output circuit.

39. The residual value calculating method according to claim 38, further comprising the step of:

distinguishing parts forming the electrical apparatus based on patterns of variations of residual values with respect to time elapsing, and preparing said patterns and the parts belonging to the respective patterns, wherein

said step of calculating the value includes the step of integrating values remaining in the respective parts forming said electrical apparatus based on said history and said variation pattern, and calculating the value remaining in said electrical apparatus.

40. The residual value calculating method according to claim 39, further comprising the step of:

receiving said variation patterns for storage in said storage circuit.

41. The residual value calculating method according to claim 38, further comprising the step of:

preparing an initial value of said electrical apparatus, wherein

said step of calculating the value includes the step of calculating the value remaining in said electrical apparatus based on said initial value and said determined history.

42. The residual value calculating method according to claim 41, further comprising the step of:

receiving said initial value for storage in said storage circuit.

43. The residual value calculating method according to claim 38, wherein

said step of issuing said electrical signal includes the step of detecting an elapsed time from at least one of the data of manufacture of

5        said electrical apparatus and the data of first use of said electrical apparatus, and issuing an electrical signal corresponding to the detected time.

44. The residual value calculating method according to claim 38, wherein

      said step of issuing said electrical signal includes the step of detecting a use environment of said electrical apparatus, and issuing an electrical signal corresponding to the detected environment.

5        45. The residual value calculating method according to claim 38, wherein

      said step of issuing said electrical signal includes the step of detecting a frequency of use of said electrical apparatus, and issuing an electrical signal corresponding to the detected frequency.

46. The residual value calculating method according to claim 38, wherein

      said step of issuing said electrical signal includes the step of detecting a magnitude of impact applied to said electrical apparatus by a user of said electrical apparatus, and issuing an electrical signal corresponding to the detected impact magnitude.

47. A record medium recording in a computer-readable fashion a program achieving a history storing method of storing a history of use of an electrical apparatus including a history storing device, said history storing device including a detecting circuit, a determining circuit and a storing circuit; and said history storing method comprising the steps of:

      detecting a state of said electrical apparatus by said detecting circuit, and issuing an electrical signal corresponding to the detected state;  
      determining the history of use of said electrical apparatus based on said electrical signal by said determining circuit; and  
10       storing the history determined in said step of determining the

history by said storage circuit.

48. The record medium according to claim 47, wherein  
said step of issuing said electrical signal includes the step of  
detecting an elapsed time from at least one of the data of manufacture of  
said electrical apparatus and the data of first use of said electrical  
apparatus, and issuing an electrical signal corresponding to the detected  
time.

49. The record medium according to claim 47, wherein  
said step of issuing said electrical signal includes the step of  
detecting a use environment of said electrical apparatus, and issuing an  
electrical signal corresponding to the detected environment.

50. The record medium according to claim 47, wherein  
said step of issuing said electrical signal includes the step of  
detecting a frequency of use of said electrical apparatus, and issuing an  
electrical signal corresponding to the detected frequency.

51. The record medium according to claim 47, wherein  
said step of issuing said electrical signal includes the step of  
detecting a magnitude of impact applied to said electrical apparatus by a  
user of said electrical apparatus, and issuing an electrical signal  
corresponding to the detected impact magnitude.

52. A record medium recording in a computer-readable fashion a  
program achieving a residual value calculating method of calculating a  
value remaining in an electrical apparatus including a residual value  
calculating device, said residual value calculating device including a  
detecting circuit, a determining circuit, a calculating circuit and an output  
circuit; and said residual value calculating method comprising the steps of:  
detecting a state of said electrical apparatus by said detecting circuit,  
and issuing an electrical signal corresponding to the detected state;

10        determining a history of use of said electrical apparatus based on  
said electrical signal by said determining circuit;  
calculating a value remaining in said electrical apparatus by said  
calculating circuit based on the history determined in said step of  
determining the history; and  
15        outputting the value calculated in said step of calculating the value  
by said output circuit.

53. The record medium according to claim 52, wherein  
said residual value calculating method further includes the step of  
distinguishing parts forming the electrical apparatus based on patterns of  
variations of residual values with respect to time elapsing, and preparing  
said patterns and the parts belonging to the respective patterns; and  
5        said step of calculating the value includes the step of integrating  
values remaining in the respective parts forming said electrical apparatus  
based on said history and said variation pattern, and calculating the value  
remaining in said electrical apparatus.

54. The record medium according to claim 52, wherein  
said residual value calculating method further includes the step of  
receiving said variation patterns for storage in said storage circuit.

55. The record medium according to claim 52, wherein  
said residual value calculating method further includes the step of  
preparing an initial value of said electrical apparatus; and  
5        said step of calculating the value includes the step of calculating the  
value remaining in said electrical apparatus based on said initial value and  
said determined history.

56. The record medium according to claim 52, wherein  
said residual value calculating method further includes the step of  
receiving said initial value for storage in said storage circuit.

57. The record medium according to claim 52, wherein  
said step of issuing said electrical signal includes the step of  
detecting an elapsed time from at least one of the data of manufacture of  
said electrical apparatus and the data of first use of said electrical  
apparatus, and issuing an electrical signal corresponding to the detected  
time.
58. The record medium according to claim 52, wherein  
said step of issuing said electrical signal includes the step of  
detecting a use environment of said electrical apparatus, and issuing an  
electrical signal corresponding to the detected environment.
59. The record medium according to claim 52, wherein  
said step of issuing said electrical signal includes the step of  
detecting a frequency of use of said electrical apparatus, and issuing an  
electrical signal corresponding to the detected frequency.
60. The record medium according to claim 52, wherein  
said step of issuing said electrical signal includes the step of  
detecting a magnitude of impact applied to said electrical apparatus by a  
user of said electrical apparatus, and issuing an electrical signal  
corresponding to the detected impact magnitude.
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61. An electrical apparatus recycle method of collecting and  
recycling an electrical apparatus including a residual value calculating  
device, said residual value calculating device including a detecting circuit  
for detecting a state of said electrical apparatus, and issuing an electrical  
signal corresponding to the detected state, an determining circuit for  
determining a history of use of said electrical apparatus based on the  
electrical signal sent from said detecting circuit, and a calculating circuit  
for calculating the value remaining in said electrical apparatus based on  
the determined history, and said recycle method comprising the steps of:  
10 outputting the value remaining in said electrical apparatus and

calculated by said calculating circuit for collecting said electrical apparatus by a collecting agent; and

setting a price for sale of said electrical apparatus based on the value output in said step of outputting said residual value.